From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY									
Wit EX P.C	To: Wittop Koning, T.H. EXTER POLAK & CHARLOUIS B.V P.O. Box 3241 NL-2280 GE Rijswijk PAYS-BAS		Termijn: 04_ Rec.: 24 MEI		WRITTEN OPINION (PCT Rule 66)				
			Opbergen:						
				Date of mailing (day/month/year,	18.05.2004				
	licant's or ag 6557PC00	ent's file reference /TWI		REPLY DUE	within 1 month(s) and 15 days from the above date of mailing				
	rnational app TÆP 03/00		International filing date (14.01.2003	day/month/year)	Priority date (day/month/year) 14.01.2002				
1	International Patent Classification (IPC) or both national classification and IPC C12N15/86								
Applicant VERENIGING VOOR CHRISTELIJK WETENSCHAPPELIJK									
1.	This written opinion is the first drawn up by this International Preliminary Examining Authority.								
2.	2. This opinion contains indications relating to the following items:								
	ı 🛛	Basis of the opinion							
	II 🗆	Priority							
1	III 🗆	Non-establishment of	opinion with regard to	novelty, inventive	step and industrial applicability				
	IV 🗆	Lack of unity of inven	tion						
	V 🛭	Reasoned statement citations and explana	under Rule 66.2(a)(ii) w tions supporting such st	rith regard to nove tatement	elty, inventive step or industrial applicability;				
	VI 🗆	Certain documents ci	ted						
	VII 🗆		international application						
	VIII 🗆	Certain observations	on the international app	lication					
3.	3. The applicant is hereby invited to reply to this opinion. When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).								
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to For the form and the language of the amendments, see Rules 66.8 and 66.9.				endments, according to Rule 66.3. d 66.9.					
	Also: For an additional opportunity to submit amendments, For the examiner's obligation to consider amendmen For an informal communication with the examiner, see			ents and/or argumer	nts, see Rule 66.4 bis.				
	If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.								
4.	 The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 14.05.2004 								

Name and mailing address of the international preliminary examining authority:

European Patent Office - Gitschiner Str. 103 D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840

Authorized Officer

Panzica, G

Formalities officer (incl. extension of time limits)

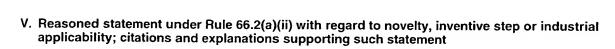
Geier, A Telephone No. +49 30 25901-706



I. Basis of the opinion

With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):
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	De	scription, Pages					
	1-5	55	as originally filed				
	~ !	ation a Al I					
	Cla	aims, Numbers					
	1-5	5	as amended (together with any statement) under Art. 19 PCT				
	Dra	awings, Sheets					
	1/1	2-12/12	as originally filed				
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:				
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
			lication of the international application (under Rule 48.3(b)).				
			anslation furnished for the purposes of international preliminary examination (under				
3.	Wit inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the inte	ernational application in written form.				
		filed together with th	ne international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This opinion has been been considered to g	en established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
6.	Add	Additional observations, if necessary:					



1. Statement

Novelty (N)

Claims

no: 1, 3-6, 10, 14-23; yes: 2, 7-9, 11-13

Inventive step (IS)

Claims

no: 1-7, 10, 11, 14-23; yes: 8, 9, 12, 13

Industrial applicability (IA)

Claims

yes 1-23

2. Citations and explanations

see separate sheet

Reference is made to the following documents:

D1: WO 97 30732 A (ONYX PHARMA INC) 28 August 1997 (1997-08-28)

D2: WO 00 29573 A (CANJI INC) 25 May 2000 (2000-05-25)

D3*: Cancer Res. 2002 Nov. 1, 62 (21): 6165-71. Van Beusechem VW et al. "Conditionally Replicative Adenovirus Expressing p53 Exibits Enhanced Oncolytic Potency"

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1. Amendments (Art. 34.2.b PCT)

The present communication is based on the set of claims received by the Examiner on 22.04.04. Amendments have been accepted as supported and in accord with the description as originally filed.

2. Priority Document and Relevant Literature

Document D3 has bee published after the date of priority. It will be considered as normal prior art for any subject-matter not present in the priority document, which is at present not available for examination. The applicant is asked to provide a copy of the priority document.

3. Novelty (Art 33.2 PCT)

3.1 Subject matter of claims 1, 3-6, 14-23 of the present application is not new in respect of the previous art. D1 discloses adenoviral vectors, which are conditionally replicating (or replication-selective) and that restore an impaired p53 induced apoptosis into cells. The use of the selectivity to target neoplastic cells is also disclosed, avoiding infection and replication in non neoplastic cells is also disclosed in D1 (see abstract, see page 5, line 19, to page 6, line 10; see page 11, line 11 to line 29).

^{*} Introduced on Examination.



- 2.1 Claims 2, 10, 11 are not inventive in respect of the previous art. The application into human cellular systems is an implicit feature of the teachings in D1. Adenoviral type 5 is a strain which is widely used as standard in replication selective viral therapy (see D2, examples). Further, p53 is among the genes which are an almost obligated choice for targeted viral infection to suppress neoplastic cells restoring apoptotic pathways (see D1, pages 5-6).
- 2.2 The applicant is asked to discuss their further contribution to the art, over D1, and to include all the essential features in the main claim (e.g., the E4 coding region, the lack of MDM-2 recognizing site in p53 for example, etc.). It should be noticed that Claim 1 is very broad (its novelty is destroyed by more documents, present in the international search report), therefore it's important to restrict its subject matter to the essentials of invention.

3. Further considerations

- 3.1 Claims depending from, or according to "any of the preceding claims") should be made dependent from single claims.
- Expressions like "preferably" in the claims are not limiting the subject matter. 3.2 Therefore technical characteristics which are reputed as essentials by the applicants should not be introduced by such expressions.
- 3.3 According to Rule 5.1.a.(ii) further relevant literature of the prior art (D1) should be acknowledged in the application and briefly discussed.
- 3.4 Upon entry on national phase, attention should be made for claims 21-23, which relate to methods of treatment. Such subject matter is excluded from patentability (see e.g. EPC Art.52.4).

